

August 2009

CURRICULUM VITAE

Name: Stuart Howard Yuspa, M.D.

Citizenship: United States

Education:

- 1962 - B.A. Johns Hopkins University, Baltimore, Maryland
- 1966 - M.D. University of Maryland, Baltimore, Maryland

Brief Chronology of Employment:

- 1966-1967 - Medical Internship, Hospital of University of Pennsylvania, Philadelphia, PA
- 1967-1970 - Research Associate, Biology Branch - Experimental Pathology Branch, Etiology, National Cancer Institute, Bethesda, MD
- 1970-1971 - Junior Assistant Resident, Department of Medicine, Hospital of University of Pennsylvania, Philadelphia, PA
- 1971-1972 - Senior Assistant Resident, Department of Medicine, Hospital of University of Pennsylvania, Philadelphia, PA
- 1972-1973 - Senior Investigator, Experimental Pathology Branch, National Cancer Institute, Bethesda, MD
- 1973-1981 - Chief, In Vitro Pathogenesis Section, Laboratory of Experimental Pathology, National Cancer Institute, Bethesda, MD
- 1981-2006 - Chief, Laboratory of Cellular Carcinogenesis and Tumor Promotion, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD
- 1998-2006 - Deputy Director, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD
- 2006-Present - Chief, Laboratory of Cancer Biology and Genetics, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD

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Military Service:

1967-1970 - Public Health Service

1972-1999 - Public Health Service

Medical License and Board Certification:

California, 1972 -Present

Diplomate, National Board of Medical Examiners, 1967

Diplomate, American Board of Internal Medicine, 1972

Societies:

American Association for Cancer Research

American Association for the Advancement of Science

American Society for Cell Biology

Society for Investigative Dermatology

Commissioned Officers Association - United States Public Health Service

Editorial Boards:

Associate Editor, Cancer Research, 1983-1996

Editor-in-Chief, Molecular Carcinogenesis, 1987-1992

Executive Editor, Molecular Carcinogenesis, 1992-Present

Associate Editor, Carcinogenesis, 1995-1998

Editorial Board, International Journal of Cancer, 2000-2006

Associate Editor, Cancer Science, 2004-Present

Associate Editor, Journal of Investigative Dermatology, 2003-2007

Section Editor, Journal of Investigative Dermatology, 2007-Present

Editorial Board, Stem Cell Reviews, 2004-2007

Honors and Other Special Scientific Recognition:

Magna Cum Laude, University of Maryland School of Medicine, 1966

Alpha Epsilon Delta

Alpha Omega Alpha

Balder Prize, University of Maryland Medical School, 1966

Commendation Medal - United States Public Health Service, 1979

Meritorious Service Award - United States Public Health Service, 1986

Memorial Medallion Awarded by Kyushu University School of Medicine,
Kyushu, Japan, 1986

Montagna Lecture - Society for Investigative Dermatology, 1988

Udo Wile Visiting Professor, University of Michigan, 1988

Chairman - 1989 Gordon Conference on Epithelial Differentiation and
Keratinization

Duhring Lecturer, University of Pennsylvania, 1989

Lila Gruber Memorial Cancer Research Award, 1989 Recipient

Elizabeth Miller Memorial Lectureship - McArdle Laboratory, University of

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Wisconsin, 1990 Recipient

Robert L. Anderson Award of the Toxicology Forum, 1991 Recipient

Fellow - American Association for the Advancement of Science, Elected 1992

Frontiers of Science Award - Society of Cosmetic Chemists, 1992 Recipient

Clowes Award - American Association for Cancer Research, 1993 Recipient

Robert S. Harris Memorial Lecturer - Massachusetts Institute of Technology, 1997
Recipient

Tanioku Memorial Lecturer - Japanese Society for Investigative Dermatology, 1997
Recipient

Distinguished Service Medal - United States Public Health Service, 1998

Charles Heidelberger Memorial Cancer Research Award, 2000 Recipient

NIH Merit Award, 2001

NCI Mentor of the Year, 2002

Steven Rothman Award, 2004, Society of Investigative Dermatology

NIH Merit Award, 2006

Lifetime Achievement Award, American Skin Association, 2007

Federal Technology Transfer Awards, 2005, 2006, 2007, 2008, 2009

Irwin Freedberg Lectureship, Gordon Conference on Epithelial Differentiation and
Keratinization, 2009

NCI Merit Award, 2009

Committees and Boards:

Ad Hoc Member - Chemical Pathology Study Section, 1979, 1985

Advisory Committee on Biochemistry and Chemical Carcinogenesis, American
Cancer Society, 1982

Member - Basic Cancer Research Group, U.S. - France Agreement for
Cooperation in Cancer Research, 1980-1985

Program Committee - AACR Annual Meeting, 1986

Clowes Award Committee Chairman - American Association for Cancer
Research, 1987

Task Force on the Role of Young Scientists in the American Association for Cancer
Research, Chairman, 1987

Rhoads Award Committee - American Association for Cancer Research, 1988

Scientific Steering Committee - American Association for Cancer Research,
1988-1989

Medical Council - The Skin Cancer Foundation, 1988-1989

Board of Directors - American Association for Cancer Research, 1988-1991

Long Range Planning Committee - American Association for Cancer Research,
1989

Scientific Education Committee - American Association for Cancer Research, 1990

Committee on Scientific Programs - Society of Investigative Dermatology, 1989-1994
Chair, Carcinogenesis Section – AACR Annual Meeting, 1993

Scientific Advisory Committee - M.D. Anderson Cancer Center, Science Park
Campus, 1993-2000

Gertrude Elion Cancer Research Award Selection Committee - American
Association for Cancer Research, 1994

Scientific Program Chairman - 55th Annual Meeting of the Society of Investigative

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Dermatology, 1994

Scientific Advisory Committee, Samuel Waxman Cancer Research Foundation 1995-Present

Publications Committee - American Association for Cancer Research, 1998-2001
Chair, Promotion and Progression Section of Carcinogenesis Program, AACR Annual Meeting, 1999

U19 Grant Advisory Committee, University of California, San Francisco, 2000-2005
Chair, Carcinogenesis Subcommittee for the AACR Annual Meeting, 2003

Chair, Chemical Carcinogen Subcommittee for the AACR Annual Meeting, 2006

Chair, Chemical Carcinogen Subcommittee for the AACR Annual Meeting, 2007

Program Committee, International Skin Carcinogenesis Meeting, 2010

Research Interest:

Chemical Carcinogenesis and Cellular Differentiation

Patents Issued:

US Patent # 7,056,908 Pharmaceutical compositions and methods for preventing skin tumor formation and causing regression of existing tumors.

EP Patent # 8,094,493 A method for the treatment of hyperproliferative epithelial skin diseases by topical application of hydroxylated aromatic protein cross-linking compounds.

EP Patent # 652,948 B1 Development of a vector to target gene expression to the epidermis of transgenic animals.

US Patent # 6,057,298 Keratin K1 expression vectors and methods of use.

US Patent # 5,914,265 Keratin K1 expression vectors and methods of use.

WO Patent # 1992/17,181 A1 Pharmaceutical compositions and methods for preventing skin tumor formation and causing regression of existing tumors.

WO Patent # 1996/25,159 A1 A method for the treatment of hyperproliferative epithelial skin diseases by topical application of hydroxylated aromatic protein cross-linking compounds.

WO Patent # 1993/22,430 A1 Development of a vector to target gene expression to the epidermis of transgenic animals.

US Patent # 2004/48,845 Pharmaceutical compositions and methods for preventing skin tumor formation and causing regression of existing tumors.

US Patent # 4,722,895 Synthetic peptides for the production of specific keratin protein antibodies.

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US Patent # 56,101,85 Method for the treatment of hyperproliferative epithelial skin diseases by topical application of hydroxylated aromatic protein cross-linking compounds.

US Patent # 5,616,471 Effects of growth factors on hair follicle cell proliferation and release of collagenolytic factors.

US Patent # 5,302,511 Antibodies to peptides unique to specific keratin proteins.

US Patent #07/677,429 Pharmaceutical compositions and methods for preventing skin tumor formation and causing regression or existing tumors.

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BIBLIOGRAPHY

1. Yuspa, S. H. and Blaustein, A. S.: Inhibitory effect of pyridoxine deficiency on growth of a transplanted tumor in rats. Proc. Soc. Exp. Med. 123: 398-403, 1967.
2. Yuspa, S. H., Eaton, S. E. A., Morgan, D. L. and Bates R. R.: The binding of 7,12-dimethylbenz[a]anthracene to replicating and non-replicating DNA in cell culture. Chem-Biol. Interactions 1: 223-233, 1969.
3. Yuspa, S. H., Morgan, D. L., Walker, R. J. and Bates, R. R.: The growth of fetal mouse skin in cell culture and transplantation to F1 mice. J. Invest. Dermatol. 55: 379-389, 1970.
4. Bates, R. R., Eaton, S. D. A., Morgan, D. L. and Yuspa, S. H.: Replication of DNA after binding of the carcinogen 7,12-dimethylbenz-[a]anthracene. JNCI 45: 1223-1228, 1970.
5. Yuspa, S. H. and Bates, R. R.: The binding of benz[a]anthracene to replicating DNA in cell culture. Proc. Soc. Exp. Biol. Med. 135: 732-734, 1970.
6. Burk, P. G., Yuspa, S. H., Lutzner, M. A. and Robbins, J. H.: Xeroderma pigmentosum and DNA repair. Lancet 1: 601, 1971.
7. Yuspa, S. H., Morgan, D. L. and Levy, J. A.: In vitro cultivation of a chemically induced epidermal carcinoma: Establishment of three cell lines and isolation of murine leukemia virus. JNCI 50: 1561-1570, 1973.
8. Yuspa, S. H., Sporn, M. and Dunlop, N: Retinyl acetate: Effect on cellular content of RNA in epidermis in cell culture in chemically defined medium. Science 182: 722-723, 1973.
9. Elias, P. M., Yuspa, S. H., Gullino, M., Morgan, D. L., Bates, R. R., and Lutzner, M. A.: In vitro neoplastic transformation of mouse skin cells: Morphology and ultrastructure of cells and tumors. J. Invest. Dermatol. 62: 569-581, 1974.
10. Yuspa, S. H. and Harris, C. C.: Altered differentiation of mouse epidermal cells treated with retinyl acetate in vitro. Exp. Cell Res. 86: 95-105, 1974.
11. De Luca, L. and Yuspa, S. H.: Altered glycoprotein synthesis in mouse epidermal cells treated with retinyl acetate in vitro. Exp. Cell Res. 86: 106-110, 1974.

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12. Yuspa, S. H., Hennings, H., Dermer, P. and Michael D.: Dimethyl sulfoxide-induced enhancement of 7,12-dimethyl-benz[a]anthracene metabolism and DNA binding in differentiating mouse epidermal cell culture. Cancer Res. 36: 947-951, 1976.
13. Elgjo, K., Hennings, H., Michael, D. and Yuspa, S. H.: Natural synchrony of newborn mouse epidermal cells in vitro. J. Invest. Dermatol. 66: 292-296, 1976.
14. Yuspa, S. H., Hennings, H. and Saffiotti, U.: Cutaneous chemical carcinogenesis: Past, present, future. J. Invest. Dermatol. 67: 199-208, 1976.
15. Edwards, W. D., Bates, R. R. and Yuspa, S. H.: Organ culture of rodent prostate: Effects of polyamines and testosterone. Invest. Urol. 14: 1-5, 1976.
16. Yuspa, S. H., Lichti, U., Ben, T., Patterson, E., Michael, D., Elgjo, K. and Hennings, H.: Stimulated DNA synthesis in mouse epidermal cell cultures treated with 12-O-tetradecanoylphorbol-13-acetate. Cancer Res. 36: 4062-4068, 1976.
17. Yuspa, S. H., Lichti, U., Ben, T., Patterson, E., Hennings, H., Slaga, T. J., Colburn, N. and Kelsey, W.: Phorbol-esters stimulate DNA synthesis and ornithine decarboxylase activity in mouse epidermal cell cultures. Nature 262: 402-404, 1976.
18. Yuspa, S. H., Elgjo, K., Morse, M. A. and Wiebel, F. J.: Retinyl acetate modulation of cell growth kinetics and carcinogen-cellular interaction in mouse epidermal cell cultures. Chem. Biol. Interac. 16: 251-264, 1977.
19. Schwarz, J. A., Viaje, A., Slaga, T. J., Yuspa, S. H., Hennings, H. and Lichti, U.: Fluocinolone acetonide: A potent inhibitor of mouse skin tumor promotion and epidermal DNA synthesis. Chem. Biol. Interac. 17: 331-347, 1977.
20. Lichti, U., Slaga, T. J., Ben, T., Patterson, E., Hennings, H. and Yuspa, S. H.: Dissociation of tumor promoter stimulated ornithine decarboxylase activity and DNA synthesis in mouse epidermis in vivo and in vitro by fluocinolone acetonide, a tumor-promotion inhibitor. Proc. Natl. Acad. Sci. USA 74: 3908-3912, 1977.
21. Poirier, M. C., Yuspa, S. H., Weinstein, I. B. and Blobstein, S.: Detection of carcinogen-DNA adducts by radioimmunoassay. Nature 70: 186-188, 1977.
22. Slaga, T. J., Lichti, U., Hennings, H., Elgjo, K. and Yuspa, S. H.: Effects of tumor promoters and steroidal anti-inflammatory agents on skin of newborn mice in vivo and in vitro. JNCI 60: 425-431, 1978.

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23. Yuspa, S. H.: Mouse epidermal cell cultures as an *in vitro* model for the study of chemical carcinogenesis. In: In Vitro Carcinogenesis, Guide to the Literature, Recent Advances and Laboratory Procedures, Saffiotti U. and Autrup, H. (Eds.), (U.S. Government Printing Office, Washington, D. C., 1978) pp. 47-56.
24. Yuspa, S. H., Lichti, U., Hennings, H., Ben, T., Patterson, E. and Slaga, T. J.: Tumor promoter-stimulated proliferation in mouse epidermis *in vivo* and *in vitro*: Mediation by polyamines and inhibition by the antipromoter steroid flucinolone acetone. In: Mechanisms of Tumor Promotion and Cocarcinogenesis, Slaga, T. J., Sivak, A. and Boutwell, R.K. (Eds.), Raven Press, New York, 1978, pp. 245-255.
25. Lichti, U., Yuspa, S. H. and Hennings, H.: Ornithine and S-adenosyl- methionine decarboxylases in mouse epidermal cell cultures treated with tumor promoters. In: Mechanisms of Tumor Promotion and Cocarcinogenesis, Slaga, T. J. Sivak, A. and Boutwell, R. K. (Eds.), Raven Press, New York, 1978, pp. 221-232.
26. Colburn, N. H., Vorder Bruegge, U. V., Bates, J. and Yuspa, S. H.: Epidermal cell transformation *in vitro*. In: Mechanisms of Tumor Promotion and Cocarcinogenesis, Slaga, T. J., Sivak, A. and Boutwell, R. K. (Eds.), Raven Press, New York, 1978, pp. 257-271.
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28. Steinert, P. and Yuspa, S. H.: Biochemical evidence for keratinization by mouse epidermal cells in culture. Science 200: 1491-1493, 1978.
29. Adamo, S., De Luca, L., Silverman-Jones, C. and Yuspa, S. H.: Mode of action of retinol: Involvement in glycosylation reactions in cultured mouse epidermal cells. J. Biol. Chem. 254: 3279-3287, 1979.
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37. Yuspa, S. H., Poirier, M. C., Harness, J. R., Olson, D. R. and Steinert, P.M.: Specific quantification of mouse and human keratin proteins by radioimmunoassay. Biochem. J. 187: 281-284, 1980.
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39. Stanley, J., Hawley-Nelson, P., Poirier, M., Katz, S. I. Yuspa, S. H.: Detection of pemphigoid antigen, pemphigus antigen, and keratin filaments by indirect immunofluorescence in cultured human epidermal cells. J. Invest. Dermatol. 75: 183-196, 1980.
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45. Yuspa, S. H.: Integumentary system - An overview. In: Methods in Cell Biology, Vol 21A., Harris, C. C., Trump, B. F. and Stoner, G. (Eds.), Academic Press, New York, 1980, pp. 289-291.
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47. Yuspa, S. H., Lichti, U. and Ben, T.: Local anesthetics inhibit induction of ornithine decarboxylase by the tumor promoter 12-O-tetradecanoylphorbol-13-acetate. Proc. Natl. Acad. Sci. USA, 77: 5312-5316, 1980.
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50. Yuspa, S. H., Ben, T. B., Hennings, H. and Lichti, U.: Phorbol ester tumor promoters induce epidermal transglutaminase activity. Biochem. Biophys. Res. Commun. 97: 700-708, 1980.
51. Lichti, U., Patterson, E., Hennings, H. and Yuspa, S. H.: Differential retinoic acid inhibition of ornithine decarboxylase induction by 12-O-tetradecanoylphorbol-13-acetate and by germicidal ultraviolet light. Cancer Res. 41: 49-54, 1981.

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52. Yuspa, S. H., Lichti, U., Ben, T. and Hennings, H.: Modulation of terminal differentiation and response to tumor promotion by retinoids in mouse epidermal cell cultures. Ann. NY Acad. Sci. 359: 260-273, 1981.
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66. Yuspa, S. H. and Harris, C. C.: Molecular and cellular basis of chemical carcinogenesis. In: Cancer Epidemiology and Prevention, Schottenfeld, D. and Fraumeni, J. F. (Eds.), W.B. Saunders Co., Philadelphia, 1982, pp. 23-43.
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72. Yuspa, S. H.: Chemical carcinogenesis related to the skin. Progress in Dermatology 15: No. 4, 1-10, 1981, 16: No. 1, 1-10, 1982.
73. Yuspa, S. H., Ben, T. and Steinert, P.: Retinoic acid induces transglutaminase activity but inhibits cornification of cultured epidermal cells. J. Biol. Chem. 257: 9906-9908, 1982.
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